

# Finding Zip Codes based on latitude and longitude

In this project we will determine the zip codes based on the geocode( latitude and longitude). We have training set that has zip codes and their corresponding geo codes. We will determine the zip codes using clustering algorithms. The zip codes in this projects belong to SF city area.

```
In [0]: # Importing the training data

from google.colab import files
import pandas as pd
import seaborn as sns
import numpy as np

uploaded = files.upload()
zipcodeTrain = pd.read_csv('TrainingData.csv')
```

 

Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.

Saving TrainingData.csv to TrainingData.csv

```
In [0]: zipcodeTrain.head()
```

Out[0]:

	latitude	longitude	address	zipcode
0	37.783970	-122.390156	180 Brannan St, San Francisco, CA 94105, USA	94105
1	37.771100	-122.424606	Market St & Laguna St, San Francisco, CA 94102...	94102
2	37.755795	-122.432384	822 Noe St, San Francisco, CA 94114, USA	94114
3	37.780138	-122.480697	5709 Geary Blvd, San Francisco, CA 94121, USA	94121
4	37.758378	-122.508305	4407 Kirkham St, San Francisco, CA 94122, USA	94122

```
In [0]: # Check for missing values in Zip Code

zipcodeTrain.loc[zipcodeTrain["zipcode"].isnull() == True]

# All zip codes are populated
```

Out[0]:

latitude	longitude	address	zipcode
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